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Dated: September 1, 2006

Signature

(Harvey L. Cohen)

Docket No.:  
DAVIES 3.0-001 CIP I  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Richard J. Davies

Application No.: 10/717,074

Group Art Unit: 3736

Filed: November 19, 2003

Examiner: C. A. Marmor

For: METHOD AND SYSTEM FOR DETECTING  
ELECTRO PHYSIOLOGICAL CHANGES IN  
PRE-CANCEROUS AND CANCEROUS  
BREAST TISSUE AND EPITHELIUM

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT AND  
REQUEST FOR CONSIDERATION OF INFORMATION UNDER 37 CFR § 1.97 (C)**

Dear Sir:

It is respectfully requested that the references listed on the enclosed form be made of record and considered with respect to the above-referenced U.S. patent application. A copy of each non-US reference is enclosed. Submission of the present Information Disclosure Statement should not be taken as an admission that the cited references are legally available prior art or that the same are pertinent or material.

It is respectfully requested that the references cited in the enclosed form be considered pursuant to 37 C.F.R. § 1.97(c). Please charge deposit account No. 12-1095 in the amount of \$180.00 pursuant to 37 C.F.R. § 1.17(p).

09/07/2006 EAYALEW1 00000002 121095 10717074

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Application No.: 10/717,074

Docket No.: DAVIES 3.0-001 CIP I

In the event that any additional fee is due in connection with the present request, the same should be charged to our deposit account No. 12-1095.

Dated: September 1, 2006

Respectfully submitted,

By 

Harvey L. Cohen

Registration No.: 28,365

LERNER, DAVID, LITTENBERG,

KRUMHOLZ & MENTLIK, LLP

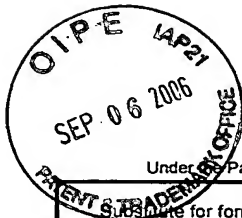
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/717,074-Conf. #7252
				Filing Date	November 19, 2003
				First Named Inventor	Richard J. Davies
				Art Unit	3736
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	HOPE ET AL., Technology review: The use of electrical impedance scanning in the detection of breast cancer, Breast Cancer Res 2004, 6:69-74	

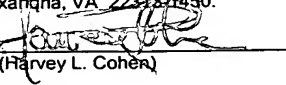
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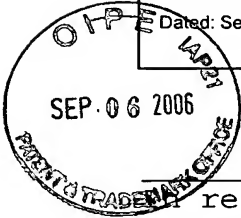
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PTO/SB/08a/b (08-03)

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	AA**	US-3,949,736	04-13-1976	Vrana, Jiri, Cervenci, Milan	
	AB**	US-4,729,385	03-08-1998	Juncosa, Robert D., Davies, Richard J.	
	AC**	US-4,955,383	09-11-1990	Faupel, Mark L.	
	AD**	US-5,099,844	03-31-1992	Faupel, Mark L.	
	AE**	US-6,251,681	06-26-2001	Davies, Richard J., Juncosa, Robert D.	
	AF**	US-6,308,097	10-23-2001	Pearlman, Andrew L.	

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	BA**	WO-98/23204-A1	06/1998	CHURCH ET AL.	

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	CA	FOSTER KR, SCHWAN HP. Dielectric Properties Of Tissues And Biological Materials: A Critical Review. Critical Reviews in Biomedical Engineering, 1989, pages 25-104 Volume 17, Issue 1, CRC Press, England.	
	CB	EMTESTAM L, OLLMAR S. Electrical Impedance Index In Human Skin: Measurements After Occlusion, In 5 Anatomical Regions And In Mild Irritant Contact Dermatitis. Contact Dermatitis Environmental and Occupational Dermatitis, February 1993, pages 104-108, Volume 28, No. 2, RJG Rycroft, London, England	
	CC	OLLMAR S, EEK A, SUNDSTROM F, EMTESTAM L. Electrical Impedance For Estimation Of Irritation in Oral Mucosa And Skin. Medical Progress Technology, February 1995, pages 29-37, Volume 21. No. 1, Kluwer Academic Publishers	
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Examiner Signature	Date Considered
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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			<b>Complete if Known</b>		
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			Filing Date	November 19, 2003	
			First Named Inventor	Richard J. Davies	
			Art Unit	1614	
			Examiner Name	Not Yet Assigned	
Sheet	2	of	11	Attorney Docket Number	DAVIES 3.0-001 CIP I

CG	LACKERMEIER AH, MCADAMS ET, MOSS GP, WOOLFSON AD. In Vivo Ac Impedance Spectroscopy Of Human Skin. Theory And Problems In Monitoring Of Passive Percutaneous Drug Delivery. Annals of the New York Academy of Sciences, 1999, pages 197-213, Volume 873
CH	CUZICK J, HOLLAND R, BARTH V, DAVIES R, FAUPEL M, FENTIMAN I ET AL. Electropotential Measurements As A New Diagnostic Modality For Breast Cancer. The Lancet, August 1998, pages 359-363, Volume 352, No. 9125,
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CJ	HÜLSER DF, FRANK W. Stimulation Of Embryonic Rat Cell In Culture By A Protein Fraction Isolated From Fetal Calf Serum, Publishing House of the Periodical for Nature Research, July 1971, pages 1045-1048, Volume 26b, No. 7
CK	MOOLENAAR WH, DE LAAT SW, VAN DER SAAG PT. Serum Triggers A Sequence Of Rapid Ionic Conductance Changes In Quiescent Neuroblastoma Cells, Nature, June 14, 1979, pages 721-723, Volume 279, No. 5714
CL	REUSS L, CASSEL D, ROTHENBERG P, WHITELEY P, MANCUSO D, GLASER L. Mitogens And Ion Fluxes. In: Mandel LJ, Benos DJ, Editors. The Role Of Membranes In Cell Growth And Differentiation, Academic Press Inc., Hartcourt Brace Jovanovich, 1986, pages 3-54, Volume 27, Orlando, Fla.
CM	MOOLENAAR WH, DE LAAT SW, MUMMERY CL, VAN DER SAAG PT. Na <sup>+</sup> /H <sup>+</sup> Exchange In The Action Of Growth Factors. In: Boynton AL, McKeehan WL, Whitfield JF, editors. Ions, Cell Proliferation and Cancer, Academic Press, Inc., 1982, Pages 151-162, New York
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CP	BOONSTRA J, MOOLENAAR WH, HARRISON PH, MOED P, VAN DER SAAG PT, DE LAAT SW. Ionic Responses And Growth Stimulation Induced By Nerve Growth Factor And Epidermal Growth Factor In Rat Pheochromocytoma (PC12) cells, The Journal of Cell Biology, July 1983, pages 92-98, Volume 97, No. 1, The Rockefeller University Press
CQ	REDMANN K, WALLISER S. Different Changes In Transmembrane Potential Of Cultured Cells After Ouabain-Inhibited Active Na <sup>+</sup> /K <sup>+</sup> -Transport. Archiv Fur Geschwulstforsch, 1981; pages 96-102. Volume 51, No. 1, Volk und Gesundheit, Berlin
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CU	DISERBO M, FATOME M, VERDETTI J. Activation Of Large Conductance Ca(2+)-Activated K <sup>+</sup> Channels In N1E-115 Neuroblastoma Cells By Platelet-Activating Factor. Biochemical and Biophysical Research Community, January 1996, pages 745-749, Vol. 218, No. 3, Academic Press

Examiner Signature		Date Considered	
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				Examiner Name	Not Yet Assigned
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CV	RANE SG. A Ca2(+)-Activated K+ Current In Ras-Transformed Fibroblasts Is Absent From Nontransformed Cells, American Journal of Physiology, January 1991, pages C104-C112, Vol. 260, No. 1, Part 1, The American Physiological Society
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CY	MOOLENAAR WH, MUMMERY CL, VAN DER SAAG PT, DE LAAT SW. Rapid Ionic Events And The Initiation Of Growth In Serum-Stimulated Neuroblastoma Cells, Cell March 1981, pages 789-798, Vol. 23, No. 3
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CA1	DECOURSEY TE, CHERNY VV. Voltage-Activated Proton Currents In Human THP-1 Monocytes, The Journal of Membrane Biology, July 1996, pages 131-140, Vol. 152, No.2, Springer
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CG1	FELBER SM, BRAND MD. Concanavalin A Causes An Increase In Sodium Permeability And Intracellular Sodium Content Of Pig Lymphocytes, The Biochemical Journal, March 1983, pages 893-897, Volume 210, No. 3, The Biochemical Society, London
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CI1	LEFFERT HL, KOCH KS. Ionic Events At The Membrane Initiate Rat Liver Regeneration. Ann The New York Academy of Sciences, 1980, pages 201-215, Volume 339, New York, USA
CJ1	VILLERREAL ML. Sodium Fluxes In Human Fibroblasts: Effect Of Serum, Ca+2, And Amiloride. Journal of Cellular Physiology, June 1981, pages 359-369, Volume 107, No. 3, Alan R. Liss, Inc.
CK1	FEHLMANN M, CANIVET B, FREYCHET P. Epidermal Growth Factor Stimulates Monovalent Cation Transport In Isolated Rat Hepatocytes, Biochemical and Biophysical Research Communications, May 1981, pages 254-260, Volume 100, No. 1, Academic Press Inc.
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	CM1	PARIS S, POUYSSEGUR J. Biochemical Characterization Of The Amiloride-Sensitive Na <sup>+</sup> /H <sup>+</sup> Antiport In Chinese Hamster Lung Fibroblasts, The Journal of Biological Chemistry, March 1983, pages 3503-3508, Volume 258, No. 6, The American Society of Biological Chemists, Inc., USA	
	CN1	PARIS S, POUYSSEGUR J. Growth Factors Activate The Na <sup>+</sup> /H <sup>+</sup> Antiporter In Quiescent Fibroblasts By Increasing Its Affinity For Intracellular H <sup>+</sup> , The Journal of Biological Chemistry, September 1984, pages 10989-10994, Volume 259, No. 17, The American Society of Biological Chemists, Inc., USA	
	CO1	POUYSSEGUR J, CHAMBARD JC, FRANCHI A, PARIS S, OBBERGHEN-SCHILLING E. Growth Factor Activation Of An Amiloride-Sensitive Na <sup>+</sup> /H <sup>+</sup> Exchange System In Quiescent Fibroblasts: Coupling To Ribosomal Protein S6 Phosphorylation, Proceedings of the National Academy of Sciences of the United States of America, July 1982, pages 3935-3939, Volume 79, No. 13, National Academy of Sciences, USA	
	CP1	POUYSSEGUR J, SARDET C, FRANCHI A, L'ALLEMAIN G, PARIS S. A Specific Mutation Abolishing Na <sup>+</sup> /H <sup>+</sup> Antiport Activity In Hamster Fibroblasts Precludes Growth At Neutral And Acidic Ph., Proceedings of the National Academy of Sciences of the United States of America, August 1984, pages 4833-4837, Volume 81, No. 15, National Academy of Sciences, USA	
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	CV1	MACARA IG. Oncogenes, ions, And Phospholipids, American Journal of Physiology, January 1985, pages C3-11, Volume 248, No. 1 Pt 1, The American Physiological Society	
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	CX1	GOLLER DA, WEIDEMA WF, DAVIES RJ. Transmural Electrical Potential Difference As An Early Marker In Colon Cancer. Archives of Surgery, March 1986, pages 345-350, Volume 121, No. 3, The American Medical Association, USA	
	CY1	DAVIES RJ, WEIDEMA WF, SANDLE GI, PALMER L, DESCHNER EE, DECOSSE JJ. Sodium Transport In A Mouse Model Of Colonic Carcinogenesis, Cancer Research, September 1987, pages 4646-4650, Volume 47, No. 17	
	CZ1	DAVIES RJ, JUNCOSA RD, KAPLAN D, PEMPINELLO C, ASBUN H, PILCH YH. Colonic Epithelial Impedance Analysis In A Murine Model Of Large-Bowel Cancer, Archives of Surgery, November 1986, pages 1253-1258, Volume 121, No. 11, The American Medical Association, USA	
	CA2	DAVIES RJ, JOSEPH R, KAPLAN D, JUNCOSA RD, PEMPINELLO C, ASBUN H et al. Epithelial Impedance Analysis In Experimentally Induced Colon Cancer, Biophysical Journal, November 1987, pages 783-790, Volume 52, No. 5, The Biophysical Society by The Rockefeller University Press, USA	
	CB2	DAVIES RJ, JOSEPH R, ASBUN H, SEDWITZ M. Detection Of The Cancer-Prone Colon,	

Examiner Signature		Date Considered	
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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/717,074
				Filing Date	November 19, 2003
				First Named Inventor	Richard J. Davies
				Art Unit	1614
				Examiner Name	Not Yet Assigned
Sheet	11	of	11	Attorney Docket Number	DAVIES 3.0-001 CIP I

	Barrett's Oesophagus, Medical & Biological Engineering & Computing, July 2000, pages 373-376, Volume 38, No. 4	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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